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The Institute for Research on Physics of Solids, Berlin-Buch, Lindenberger Tog 76, a part of the East German Academy of Sciences, is under the directorship of Professor Dr. Friedrich Moeglich. Aceglich at the same time occupies the chair for theoretical physics at Berlin Humboldt University and is head of its Institute for Theoretical Physics. Koeflich is a member of the SaD and an eager advocate of the Communist system. He has lately been instrumental in firing employees from east German academic institutes who live in lest Berlin, or those who are thought to be politically unreliable. It is commonly believed among German scientists that Moeglich adheres to Communism for opportunistic reasons rather than out of conviction. Preceding the last war, he was an ardent National Socialist and wore the uniform of Hitler's SA troops. It is known that as an SA trooper he participated in the Nazi actions against German Jews. He left the National Socialist party involuntarily because he was accused of having relations with a Jewish woman. In his appeal against the decision of the Nazi Party court, Moeglich denied the charge and applied for reachission into the NSDAP. The appeal was rejected.

After his expulsion from the Nazi Party, Noeglich, under the influence of Communist Professor Robert Rompe, became a Communist sympathizer; he continues to be closely associated with Rompe, Noeglich is not now doing serious scientific work; he confines himself - in addition to lecturing at the University - to the administrative and political supervision of the two institutes under his direction. The reputation of being a good theoretician and "computer" which he enjoyed for some time in German scientific circles has long since vanished. It is generally believed that Roeglich's Communist leanings are mainly based on the realization that his scientific abilities are not sufficient for him to hold a post in 'est Germany similar to the one he now occupies. Moeglich has, until recently, tried to create the atmosphere of a certain political tolerance in his Institute. It was, for instance, a well known and accepted fact that almost no political indoctrination courses were held in Roeglich's Institute. This situation was recently changed and Loeglich has become a staunch advocate of political indoctrination for scientists.

3. Research being done at the Institute centers mainly around qualities of sadmium-sulphide crystals when exposed to the influence of light, electrons and X-rays. The Institute is divided into coveral departments.

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- a) The Optical Department, headed until the fall of 1952 by Dr. Josef Passbander. After the latter's defection to West Germany, Dr. Wilhelm duscheid was appointed acting head of the Department. Muscheid is not doing research on the influence of oxygen upon the conductivity of codador avianide crystals. Together with Dipl. Physicist Wilhelm Datiler. Sucheid specifically does research on the relations between improvement and oxygen contents in Odd crystals and the photo current that affects. Another member of the Optical Department, Fraulein has a formerly such one operancement, is engaged in research in the discribution of potential in the discription, we have described and also the Dr. Herdhard largebild, we alway of the photo current with a longitude in December 1952 because of political unreliability; Beraphin defected to West Germany.
- b) The Electronics Department, needed by Dr. (fnu) Eckert, 1 who was formerly with the Oberspreewerk and joined the Institute about nine months ago. Ackert is doing experimental work with television tubes. . Dipl. Physicist Gerhard Schubert carries out research on the distribution of whe potential of CdS crystals subjected to bombardment with electrons manating from a glow cathode and directed upon the crystals with a foressing installation. This is done in high vacuum. The high vacuum equipment comes from the Leybold firm in Cologne. Physicist Gerhard Hueller is engaged in research on the decay of luminescence of various substances. The decay time of luminescence is studied by means of a multiplier, an amplifier and an oscillograph. It is expected that the results of Mueller's work can be put to use to develop television screens with a very short decay time. Physicist Heinz Dietrich, also formerly with the Oberspreewerk, is growing silicon crystals. The crystals so far grown have the maximum size of a pinhead. No research with silicon crystals has yet been done. It is, however, hoped that transistor effects similar to those of germanium crystals will be found.
- a) The Chemical Department, Head of this department is Dr. Otto Neunhoeffer, professor for theoretical Organic Chemistry at Humboldt University and acting head of its Organic Chemical Institute following the defection to the United States of its former head, Professor Christian Grundmann. Noumbooffer's function at the Institute is mainly advisory; he is not engaged in active research. Chemical analyst Dr. Rudolf Schlueter is duling research on methods to indicate and measure such impurities in UdS crystals and other solids as are necessary to generate photo gurrent effects. Dipl. Chemist District Rosabl is investigating the dependency of the fluorescence bower of organic substances from the appearable to the son and a color and many and the Affect among and There are the Holland-Well are making Got crystals. Holland-Well makes them from sulphur and cadmium in vaporized form according to the procedure initiated by Fredrichs and later adopted and developed by Fassbender. The result is CdS crystals in the form of extremely thin foils. Every makes crystals from molten cadmins sulphide. As a result, crystals of spherical shape about the size of a pea were obtained for the first time in November 1952.
- d) The Department for Structure Research is headed by Dr. Hellmut Simon lie is engaged in experimental work on the use of CdS crystals as X-ray dosimeters. His so far unsuccessful efforts aim at the production of CdS crystals with such stable qualities that the same photo current is always generated by bombardment with one roentgen per second. Dipl. Physicist Gerhard Eichhoff is doing research on the energy bands of the CdS crystal when exposed to ultra soft X-Rays of about 10 angstrom. Pescarch initiated by Dipl. Physicist Hans Thiel on the exposure of CdS crystals to X-rays and infra-red rays (killer effect) was suspended because Thiel had to take a long-term hospital cure for tuberculosis.

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- e) A new department, is now being established. This department will be engaged in theoretical research on the physics of solids. Dr. Gerhard Hoehler, Moeglich's chief assistant in the Institute for Theoretical Physics, has been appointed its head.
- 4. The entire work of the Institute is very much dependent upon the mounting of the CdS crystals made in the Chemical Department of the Institute into CdS cells. Since Fassbender defected to West Germany, chief laboratory tesimician (fnu) Peschke is the only person in the Institute who can properly do this task.

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